Monterey County

CROP REPORT 2005





Recognizing Grower-Shipper Association for 75 Years of Service.

Grower-Shipper Association of Central California

From its simple beginnings in 1930, the Grower-Shipper Association of Central California has grown from a handful of members producing iceberg lettuce to over 300 members spanning four Central Coast counties and virtually every commodity mentioned in the Monterey County Crop Report (vegetables, berries, mushrooms and wine grapes). The strength and influence of the Association, much like the wide variety of regions and commodities it covers, comes from the diversity of the membership. Growers, shippers, coolers, harvesting and packing companies, salad plants and other processors, wineries, seed companies and numerous ancillary businesses are the types of individuals and companies who belong to GSA. From the largest vertically-integrated agribusiness firms to the smallest one-person farming operation, the Grower-Shipper Association is truly a "Who's Who" of Monterey County agriculture.

As Grower-Shipper's membership has grown, so too have the challenges facing the industry. The Association has continuously expanded and broadened its programs and services to meet the members' needs. GSA has, since its inception, represented the membership at the local, regional, state, and federal levels. Government and regulatory affairs, legislative and public policy advocacy, legal services, labor relations, personnel management and human resources, food safety, worker safety and health, land use, environmental compliance, water and air quality, farm labor availability, worker and affordable housing, and specialty crop protection are just a few of the many items on the organization's agenda.

Grower-Shipper plays a strong role in working with other agricultural associations and government agencies on issues important to agriculture. In addition to its long-standing effectiveness as an advocate on behalf of its membership, GSA takes justifiable pride in its reputation as a "liaison/facilitator" between the industry and government. Whether it is working with legislators in drafting laws, local elected officials in crafting ordinances, or providing feedback to, and working with, regulators on the best methods to enforce those laws and ordinances, GSA is recognized by all as the "link" between industry and government to keep Central Coast agriculture viable.

As is readily apparent, the variety and quality of services, programs, and benefits the Association provides its membership is extensive, impressive - and growing. GSA's services fall into three major categories: representation, advocacy and education. There is no question that Grower-Shipper's educational and training programs are unrivaled among local and regional trade associations. This past year for example, GSA has conducted or presented almost 100 workshops, seminars, and training sessions on a myriad of subjects such as: wage and hour issues, heat stress regulation, labor and employment law update, sexual harassment, worker safety, CPR classes, environmental regulations and compliance, age crime prevention, supervisor training, annual industry wage and benefits survey, updated food safety guidelines, PACA, debt collection and bankruptcy, market access and exports, ag waivers, and conservation of agricultural lands.

Grower-Shipper's mission statement sums it up best: "We are the Central Coast's solution representing our members' agricultural needs." Whatever the issue, whatever the challenge, whatever the problem, the Association takes up the banner on behalf of its membership. To this end, and at every opportunity for over 75 years, GSA has expanded and improved upon its many services and programs to better serve the membership.

To me, however, the Association's greatest contribution to the industry can be summed up in one word: people. Grower-Shipper's strength is derived from a truly remarkable group of people -- the founders, members, officers, directors, and hard-working staff who have given so much to agriculture over the years. It is truly a legacy worth celebrating.

Many thanks are extended to my friend and colleague, Monterey County Agricultural Commissioner Eric Lauritzen and his office for recognizing and honoring the Grower-Shipper Association on its "Diamond Anniversary." I speak on behalf of our entire membership in expressing our sincere appreciation for the professional and productive working relationship GSA has enjoyed with the Monterey County Agricultural Commissioner's office these past 75 years, and look forward to that relationship continuing and thriving for many years to come.

James W. Bogart, President & General Counsel www.gsva.org

MONTEREY COUNTY

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It is a pleasure to present the 2005 annual Monterey County Crop Report, which is prepared pursuant to the provisions of Section 2279 of the California Food & Agriculture Code. This report reflects a production value of nearly \$3.3 billion for Monterey County, an increase of approximately 11% over 2004. The increase is attributable to higher values for leaf lettuce, strawberries, wine grapes, nursery products, spinach, spring mix and a variety of other vegetable crops and reflects the diversity of our agricultural industry. However, decreases were noted in other core commodities including broccoli and asparagus. While the overall production value reflects an increase over 2004, it is critical to note that the figures provided are gross values and do not represent or reflect net profit or losses experienced by individual growers.

Monterey County continues to be a leader in agriculture, in both exports, shipping more than 580 million pounds of produce to more than 50 countries worldwide and diversity, with more than 40 crops exceeding \$1 million in production value.

The 2005 crop figures reveal a continuing trend toward consumer-ready packaging, resulting in increased consumption and production of commodities like leaf lettuces, especially Romaine, spinach and spring mix. Strawberry production was up nearly \$74 million on increased acreage, production and price. Wine grape production per acre was up significantly over 2004, resulting in an increase of \$80 million. Nursery products, celery, mushrooms and artichokes also posted increases in 2005. The County's organic segment increased slightly with a value of more than \$155 million on over 16,000 acres.

This report is our yearly opportunity to recognize the producers, growers and ranchers, along with all the other related businesses that contribute to Monterey County's economic engine. In our continuing effort to improve this report and to more accurately reflect the value of production at the grower level we made adjustments to some 2004 values to provide a fair comparison with the 2005 values that do not capture crop values associated with processing and packaging, as it has in some past years' reports. It is critical to thank the agricultural industry and others who generously provide assistance and vital information to complete this report. Without a very collaborative effort, compilation of this report would not be possible.

This year's report is dedicated to the Grower-Shipper Association of Central California who celebrated their 75th anniversary of service to the agricultural industry of Monterey County. I want to personally thank Jim Bogart for his contributions to this report. Special recognition for the production of this report goes to Richard Ordonez, Melissa Sells and all the staff who assisted in compiling this information and in improving the quality of the report.

Sincerel

Eric Lauritzen

Agricultural Commissioner

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Thanks to those who provided information for this year's crop statistics. Without your cooperation compiling accurate data would not have been possible. Enumeration and layout was a cooperative effort of the Agricultural Commissioner's Staff.

Special Thanks to **Grower Shipper Association** for their help in the production of this year's Crop Report.

To learn more about the Monterey County Agricultural Commissioner's Office visit our web site:

www.co.monterey.ca.us/ag/

VEGETABLE CROPS

			PRODUCTION	ON		VALU	_
CROP ¹	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL ²
ANISE	2005	608	15.11	9,200	TON	\$545.20	\$5,013,000
	2004	534	14.22	7,600	TON	525.92	3,990,000
ARTICHOKES	2005	6,081	6.51	39,600	TON	1,380.45	54,674,000
	2004	6,183	5.38	33,000	TON	1,448.33	48,210,000
ASPARAGUS	2005 2004	3,476 4,968	4.22 3.27	14,700 16,300	TON TON	1,580.17 1,741.11	23,159,000 28,309,000
		,		·		•	
BOK CHOY	2005 2004	393 389	14.80 23.36	5,800 9,100	TON TON	297.92 280.74	1,731,000 2,548,000
	2001		20.00	0,100		200	2,010,000
BROCCOLI, Fresh	2005 2004	38,863 34,527	6.68 7.33	259,600 253,000	TON TON	601.41 685.62	156,131,000 173,612,000
•				•			
Food Service ³	2005 2004*	N/A N/A	N/A N/A	68,900 58,000	TON TON	582.20 656.21	40,121,000 38,060,000
				·			
Processing ⁴	2005 2004*	N/A N/A	N/A N/A	39,200 43,700	TON TON	517.98 590.84	20,323,000 25,820,000
BROCCOLI Total	2005 2004	48,922 42,802	N/A N/A	N/A N/A	TON TON	N/A N/A	216,575,000 237,492,000
		-					
CABBAGE, Fresh	2005 2004	2,084 1,569	17.43 14.40	36,300 22,600	TON TON	366.13 321.57	13,291,000 7,269,000
For all Operation (Decompositions		·					
Food Service/Processing	2005 2004*	N/A N/A	N/A N/A	38,900 32,400	TON TON	310.60 290.80	12,070,000 9,422,000
CABBAGE Total	2005	5,314	N/A	N/A	TON	N/A	25,361,000
CABBAGE TOTAL	2004	6,272	N/A	N/A	TON	N/A	16,108,000
CARROTS, Fresh	2005	1,419	22.21	31,500	TON	352.38	11,100,000
	2004	1,311	38.25	50,100	TON	220.66	11,062,000
Food Service	2005	N/A	N/A	17,200	TON	318.22	5,474,000
	2004*	N/A	N/A	14,200	TON	248.05	3,522,000
CARROTS, Total	2005	3,382	N/A	N/A	TON	N/A	16,574,000
	2004	2,989	N/A	N/A	TON	N/A	14,584,000
CAULIFLOWER, Fresh	2005	15,025	8.60	129,200	TON	654.65	84,557,000
	2004	13,165	9.77	129,000	TON	698.95	89,931,000
Food Service/Processing	2005	N/A	N/A	17,800	TON	496.47	8,829,000
	2004*	N/A	N/A	5,600	TON	530.07	2,986,000
CAULIFLOWER Total	2005 2004	17,380 14,520	N/A N/A	N/A N/A	TON TON	N/A N/A	93,386,000 92,899,000
		14,320					
CELERY, Fresh	2005 2004	7,957 7,331	41.37 38.44	329,200 282,000	TON TON	292.95 314.03	96,433,000 88,497,000
	2004	1,331	30.44				000,437,000
Food Service	2005 2004*	N/A N/A	N/A N/A	35,300 20,900	TON TON	218.23 232.78	7,702,000 4,865,000
	Z0U4"	N/A	N/A	20,900	ION	232.18	4,865,000

Organic figures included in totals

7 Totals may not calculate due to rounding

Adjusted figures

3 "Food Service" commodities are destined to be sold to restaurants and foodservice companies for the preparation of meals eaten away from home, sold in larger packages

4 "Processing" commodities are destined to be processed in a way that substantially alters the raw nature of the product such as freezing, drying or cooking, and does not necessarily include processes such as washing, slicing or chopping.

VEGETABLE CROPS

			PRODUCT	ION		VAL	UE
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
CELERY, Total	2005	9,965	N/A	N/A	TON	N/A	\$104,144,000
	2004	9,504	N/A	N/A	TON	N/A	93,362,000
CHARD	2005	655	8.32	5,500	TON	841.91	4,593,000
	2004	625	6.60	4,100	TON	791.16	3,260,000
CII ANTRO	2005	700	0.05	C 000	TON	700.44	F 440 000
CILANTRO	2005 2004	782 776	8.85 9.26	6,900 7,200	TON TON	782.11 810.67	5,412,000 5,828,000
				,	-		-,,-
HERBS ¹	2005	101	6.00	600	TON	1,450.00	879,000
	2004	94	8.25	771	TON	1,792.00	1,387,000
KALE	2005	2,002	10.72	21,500	TON	742.54	15,936,000
	2004	1,360	10.90	14,800	TON	790.35	11,717,000
LEEKS	2005	251	11.99	3,000	TON	1,372.82	4,126,000
	2004	266	12.18	3,200	TON	1,397.45	4,524,000
LETTUCE, Total ²	2005	216,171	N/A	N/A	CTN	N/A	912,621,000
LETTOCE, Total	2004	206,500	N/A	N/A	CTN	N/A	718,837,000
			14,71		• • • • • • • • • • • • • • • • • • • •	1471	1 10,001,000
MISC. VEGETABLES, Fresh	2005	3,591	5.18	18,600	TON	1,099.94	20,472,000
	2004 ³	3,755	4.90	18,400	TON	1,005.97	18,519,000
Food Service	2005	N/A	N/A	109,100	TON	596.82	65,097,000
1 000 001 1100	2004*	N/A	N/A	94,600	TON	614.51	58,133,000
Processing	2005	N/A	N/A	52,500 54,000	TON	369.63	19,389,000
	2004	N/A	N/A	51,000	TON	283.08	14,458,000
MISC. VEGETABLES, Total ⁴	2005	19,828	N/A	N/A	TON	N/A	104,958,000
	2004*	18,390	N/A	N/A	TON	N/A	91,110,000
MUSHROOMS	2005	157	N/A	45,766,000	LBS	1.44	65,983,000
MOSHROOMS	2003	157	N/A N/A	47,148,000	LBS	1.44	59,981,000
				, ,,,,,,			
NAPA	2005	650	28.33	18,400	TON	306.52	5,644,000
	2004	587	23.83	14,000	TON	291.75	4,081,000
ONIONS, Dry	2005	1,890	25.50	48,200	TON	246.02	11,858,000
, ,	2004	1,740	24.13	42,000	TON	121.98	5,121,000
ONIONS, Green	2005 2004	1,420 1,229	12.34 12.58	17,500 15,500	TON TON	1,086.61 1.057.74	19,016,000 16,349,000
	2004	1,229	12.30	13,300	1014	1,037.74	10,349,000
PARSLEY	2005	439	14.79	6,500	TON	726.56	4,719,000
	2004	447	15.90	7,100	TON	737.79	5,243,000
PEAS ⁵	2005	4 570	N1/6	NI/A	TON	NIA	25 544 000
FEAS	2005 2004	1,578 1,125	N/A N/A	N/A N/A	TON TON	N/A N/A	25,514,000 14,381,000
		.,3					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
PEPPERS ⁶	2005	964	21.37	20,600	TON	383.96	7,921,000
	2004	952	21.01	20,000	TON	339.54	6,788,000
RADICCHIO	2005	2,156	3.76	8,100	TON	1,241.45	10,067,000
	2003	2,136	3.49	7,200	TON	1,308.56	9,476,000
		,		,		,	, -,

Includes: Basil, Chervil, Dill, Ginkgo, Marjoram, Oregano, Rosemary, Sage and Thyme

See Lettuce Production for detail information, Page 11

Corrected figures

Includes Augula, Beans, Beets, Broccolini, Brussel Sprouts, Cactus Pears, Cardone, Chicory, Chives, Collard Greens, Corn, Cucumbers, Daikon, Dandellon Greens, Edible Flowers, Fava Beans, Fennel, Frisee, Garlic, Gourds, Kohlrabi, Mache, Mustard, Parsnips, Pumpkins and Turnips
Includes Food Service and Processing
Includes Food Service and Processed Pimentos, Chili and Bell Peppers

'Adjusted figures

VEGETABLE CROPS

		P	RODUCTION			VALU	JE
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
RADISH	2005 2004	186 200	14.96	2,800	TON TON	\$496.63 426.75	\$1,380,000
	2004	200	22.02	4,400	ION	420.75	1,882,000
RAPPINI	2005	3,612	3.41	12,000	TON	1,233.43	15,199,000
	2004	2,988	3.07	9,100	TON	1,306.31	11,966,000
SALAD PRODUCTS ¹	2005	N/A	N/A	309,100	TON	427.99	132,277,000
SALAD I NODOCIO	2004*	N/A	N/A	423,000	TON	673.07	284,709,000
SPINACH, Fresh	2005	10,451	11.34	118,500	TON	982.73	116,491,000
	2004	9,951	10.82	107,700	TON	892.78	96,152,000
Frank Ormalia	2005	N/A	N/A	28 000	TON	000.04	22 425 222
Food Service	2005	N/A N/A	N/A N/A	28,000 26,334	TON	836.61	23,425,000
	2004*	N/A	IN/A	20,334	TON	750.47	19,763,000
Value Added ²	2005	N/A	N/A	56,900	TON	849.00	48,308,000
Value Added	2004*	N/A	N/A	53,466	TON	759.42	40,603,000
	2004			,	1011	700.42	40,000,000
SPINACH, Total	2005	16,937	N/A	N/A	TON	N/A	188,224,000
	2004	14,115	N/A	N/A	TON	N/A	156,518,000
SPRING MIX	2005	13,079	8.64	113,000	TON	1,454.78	164,462,000
OF KING MIX	2004	12,207	7.82	95,500	TON	1,476.51	140,975,000
		•		,		.,	
SQUASH	2005	325	11.21	3,600	TON	666.96	2,432,000
	2004	349	10.72	3,700	TON	443.59	1,661,000
TOMATOES	2005	505	18.02	9,100	TON	619.89	5,636,000
	2004	431	20.60	8,900	TON	635.28	5,635,000



VEGETABLE CROPS	2005	285,351	VEGETABLE CROPS	\$2,249,474,000
TOTAL ACRES	2004	285,868	TOTAL VALUE	\$2,098,931,000

¹ A number of commodities were extracted and distributed accordingly in 2005.

^{2 &}quot;Value Added" commodities are destined to be sold to consumers to prepare meals at home, and are sold in smaller packages with consumer labeling: Figures reflect only FOB value of commodity.

FRUIT AND NUT CROPS

			PRODUCT	TON		VAL	UE
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
AVOCADOS	2005	175	1.97	346	TON	\$2,330.85	\$805,000
	2004	134	2.05	275	TON	1,610.45	442,000
CITRUS	2005	1,169	24.62	28,800	TON	311.47	8,962,000
on to o	2004	1,114	16.43	18,300	TON	452.61	8,284,000
GRAPES ¹	2005	38,179	7.09	269,000	TON	948.09	254,615,000
	2004	38,614	4.46	172,000	TON	1,013.35	174,380,000
DAGDDEDDIEG	0005	204	44.00	7.000	TON	0.700.04	00.040.000
RASPBERRIES	2005	621	11.30	7,000	TON	3,793.91	26,612,000
	2004	643	11.58	7,400	TON	3,473.76	25,851,000
STRAWBERRIES	2005	9,294	29.75	276,500	TON	1,395.00	385,731,000
	2004	8,807	25.91	228,000	TON	1,363.33	311,098,000
Processing	2005	N/A	N/A	14,900	TON	346.44	5,166,000
	2004	N/A	N/A	14,400	TON	415.95	5,974,000
STRAWBERRIES, Total	2005	9,294	N/A	291,400	TON	N/A	390,898,000
OTTAWBERRIES, Total	2004	8,807	N/A	243,000	TON	N/A	317,072,000
WALNUTS	2005	188	1.47	276	TON	1,450.00	400,000
	2004*	180	1.64	295	TON	1,450.00	428,000
MISC. FRUIT ²	2005	205	11.94	2,500	TON	1,330.95	3,261,000
	2004	78	12.35	963	TON	2,682.88	2,584,000



FRUIT AND NUT CROPS	2005	49,831	FRUIT AND NUT CROPS	\$685,553,000
TOTAL ACRES ³	2004	49,570	TOTAL VALUE	\$529,041,000

¹ Represents Bearing Acres Only: See Grape Production for detail information Page 11 ² Includes: Apples, Blackberries, Blueberries, Brambleberries, Kiwi and Olives

 $^{^3}$ Totals may not calculate due to reorganization of crops; Corrected figures $^\star {\rm Adjusted}$ figures

SEED PRODUCTION

			PRODUC	VALUE			
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
BEAN SEED, All	2005	2,751	1.01	2,800	TON	\$1,143.76	\$3,169,000
	2004	2,617	0.75	2,000	TON	1,565.01	3,066,000
MISC. SEED1	2005	2,089	2.14	4,500	TON	644.67	2,880,000
	2004 ²	2,403	1.89	4,500	TON	871.17	3,956,000
OFFE CROPS					SEED CROPS		
SEED CROPS	2005	4,840			SEED CROPS		\$6,049,000
TOTAL ACRES	2004	5,020			TOTAL VALUE		\$7,022,000



APIARY PRODUCTION

					VALU	JE
CROP	YEAR	COLONIES	PRODUCTION	UNIT	PER UNIT	TOTAL
HONEY	2005	N/A	23,000	LBS	\$0.90	\$20,700
	2004	N/A	14,200	LBS	1.10	15,600
POLLINATION ³	2005	320	N/A	COLONY	37.50	12,000
	2004	650	N/A	COLONY	47.50	30,900
WAX	2005	N/A	1,000	LBS	1.35	1,400
	2004	N/A	750	LBS	1.78	1,300

APIARY TOTAL	2005	320	24,000	\$34,100
	2004	650	14,900	\$47,800

¹ Includes: Barley, Broccoli, Cauliflower, Kale and Pea Seed

² Corrected Figures ³ Crops Pollinated: Apple; Broccoli, Carrot, Caulillower, Kale, Melon, Onion, Parsley, Pepper, Spinach and Squash (seed).

CUT FLOWERS AND CUT FOLIAGE

		PRODUCTION			VAL	UE
CROP	YEAR	ACREAGE	QUANTITY SOLD	UNIT	PER UNIT	TOTAL
			<u> </u>			
ALSTROEMERIA	2005	15.10	239,400	PER BUNCH	\$1.71	\$409,000
	2004	15.00	237,800	PER BUNCH	1.05	251,000
ASIATIC LILLY*	2005	4.54	194,000	PER BUNCH	4.12	797,000
CARNATIONS	2005	15.71	7,443,000	PER BLOOM	0.14	1,062,000
	2004 ¹	28.00	23,308,000	PER BLOOM	0.19	4,526,000
						1,0_0,000
CHRYSANTHEMUMS	2005	28.61	2,220,000	PER BLOOM	0.76	1,687,000
	2004	56.00	2,833,000	PER BLOOM	0.74	2,082,000
EUCALYPTUS	2005	98.27	925,000	PER BUNCH	1.31	1,209,000
	2004	87.00	937,000	PER BUNCH	2.84	2,665,000
GERBERA*	2005	16.03	8,042,000	PER BLOOM	0.30	2,375,000
IRIS	2005	19.08	352,000	PER BUNCH	2.03	713,000
,,,,,,	2004	18.00	344,000	PER BUNCH	1.95	671,000
MINIATURE CARNATIONS	2005	7.62	272,000	PER BUNCH	1.63	442,000
MICO OUT ELOWEDO AND	<u> </u>	<u> </u>				
MISC. CUT FLOWERS AND CUT FOLIAGE ²	2005	314.25	15,600,000	VARIOUS	2.78	43,439,000
	2004	296.00	35,949,000	VARIOUS	1.07	38,489,000
ORIENTAL LILLIES*	2005	6.21	215,000	PER BUNCH	9.35	2,008,000
ROSES ³	2005	31.34	11,916,000	PER BLOOM	0.33	3,926,000
	2004	86.00	29,528,000	PER BLOOM	0.29	8,473,000
			-,,			-, -,
SNAPDRAGON	2005	16.84	584,000	PER BUNCH	2.80	1,637,000
	2004	16.00	639,000	PER BUNCH	2.81	1,795,000
F						
TULIPS*	2005	3.06	89,600	PER BUNCH	3.42	306,000
CUT FLOWERS AND CUT FOLIAGE	2005	577		VARIOUS		\$60,012,000
TOTAL ACRES	2004	618		VARIOUS		\$59,212,000
	50.	0.0				ŢŢŢ, 1 2,000

¹ Figures include Miniature Carnations for 2004

² Includes, Amarnthus, Amaryllis, Asters, Bells of Ireland, Calla Lilly, Campanula, Celosia, Chocolate Cosmos, Craspedia, Crocosimia, Curly Willow, Dahlias, Delphinium, Ferns, Freesia, Gardenia, Gipsy, Gladiolus, Godetia, Gomphena, Gypsophila, Heather, Hydrangea, Kale, Kangaroo Paw, Larkspur, Lavendar, Liaris, Lisianthus, Lovelia, Lupine, Marigold, Montbretia, Narcissus, Protea, Ranunculus, Rudbechia, Safflower, Sapnoaria, Smilax, Statice, Stephanotis, Stock, Strawflower, Sunflower, Sweet Peas, Tritoma Flamenco, Tuberose and Tweedia

³ Combined figures for Miniature Roses and Standard Roses

⁴ Totals may not calculate due to reorganization of crops

^{*}New Category

NURSERY PRODUCTS

			PRODUCTION		VAL	UE
CROP	YEAR	ACREAGE	QUANTITY SOLD	UNIT	PER UNIT	TOTAL
	_	_	-	_		
BEDDING PLANTS*	2005	222.50	42,788,000	PER PLANT	\$0.53	\$22,541,000
FRUIT & NUT TREES*	2005	4.00	291,000	PER PLANT	2.91	848,000
MISC. NURSERY PRODUCTS ¹	2005	367.24	2,030,000	VARIOUS	4.06	8,236,000
	2004	904.00	39,418,000	VARIOUS	1.25	49,385,000
ORCHIDS	2005	91.97	11,191,000	PER PLANT	7.18	80,339,000
	2004	53.00	8,838,000	PER PLANT	7.12	62,928,000
POINSETTIA	2005	38.00	864,000	PER PLANT	5.96	5,155,000
	2004	50.00	2,382,000	PER PLANT	3.57	8,512,000
POTTED PLANTS*	2005	272.73	20,708,000	PER PLANT	2.66	55,183,000
PROPAGATIVE MATERIALS	2005	12.54	5 202 000	PER PLANT	0.20	4 402 000
PROPAGATIVE MATERIALS	2005 2004	141.00	5,203,000 26,682,000	PER PLANT	0.29 1.08	1,483,000 28,708,000
VEGETABLE TRANSPLANTS ²	2005	104.90	2,099,900,000	PER PLANT	0.02	42,177,000
	2004 ³	100.00	2,024,496,000	PER PLANT	0.02	40,450,000
WOODY ORNAMENTALS	2005	8.80	25,500	PER PLANT	10.25	261,000
	2004	30.00	1,466,000	PER PLANT	6.10	8,949,000
NURSERY PRODUCTS	2005	1,123		NURSERY PRODU	стѕ	216,223,000
TOTAL ACRES	2004 ⁴	1,291		NURSERY PRODUC	CTS	201,991,000



OVERALL NURSERY	2005	1,699	OVERALL NURSERY	\$276,235,000
TOTAL ACRES	2004 ⁵	1,909	TOTAL VALUE	\$276,235,000 \$261,203,000

¹ Includes: Christmas Trees, Clivia, Native Plants, Turf and Water Pond Plants

² Crop category previously reported as commercial/organic vegetables

³ Corrected Figures ⁴ Corrected Figures

⁵ Corrected Figures

LIVESTOCK & POULTRY

					VALU	JE
CROP	YEAR	HEAD	PRODUCTION	UNIT	PER UNIT	TOTAL
CATTLE & CALVES	2005	47,500	298,000	CWT	\$71.00	\$21,213,000
	2004	47,500	298,000	CWT	69.00	20,610,000
STOCKER	2005	50,000	104,000	CWT	91.00	9,500,000
	2004	50,000	116,000	CWT	89.00	10,324,000
SHEEP & LAMBS	2005	2,500	3,750	CWT	91.00	368,000
	2004	2,500	3,750	CWT	90.00	338,000
DAIRY COWS	2005	1,400	N/A	HEAD	2,000.00	2,800,000
	2004	1,160	N/A	HEAD	2,000.00	2,320,000
CULL COWS	2005	241	N/A	HEAD	650.00	157,000
3322 33.113	2004	250	N/A	HEAD	800.00	200,000
	2001		1471	112,12	200.00	200,000
CALVES	2005	200	N/A	HEAD	80.00	16,000
	2004	137	N/A	HEAD	70.00	9,600
HOOS		4.000	204 000	LDC	0.54	455.000
HOGS	2005	1,600	304,000	LBS	0.51	155,000
	2004	1,600	304,000	LBS	0.50	152,000
MILK, MARKET	2005	N/A	295,000	CWT	14.41	4,256,000
	2004	N/A	339,000	CWT	15.11	5,120,000
			,			
WOOL	2005	N/A	18,000	LBS	0.40	7,200
	2004	N/A	18,000	LBS	0.40	7,200
	2005					1 717 000
MISC. POULTRY PRODUCTS ¹	2005 2004 ²					1,717,000 1,030,000
	2004					1,030,000



LIVESTOCK & POULTRY	2005	\$40,189,000
TOTAL	2004	\$40,111,000

¹ Includes Fertilizer, Poultry, Eggs, Milk Manufacturing and Hatcheries

² Corrected Figure

FIELD CROPS

			PRODUCTION				VALUE
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
BARLEY, Grain	2005	12,160	1.03	12,600	TON	\$90.98	\$1,142,000
	2004	10,064	0.86	8,600	TON	106.40	917,000
BEANS ¹	2005	1,200	1.78	2,100	TON	1,028.07	2,190,000
	2004	1,832	1.30	2,400	TON	1,194.94	2,848,000
HAY, Alfalfa	2005	970	1.75	1,700	TON	125.49	213,000
,	2004	1,428	1.67	2,400	TON	129.38	308,000
MISC. FIELD CROPS ²	2005	2,646	1.02	2,700	TON	102.57	276,000
OATS ³	2005	3,910	2.11	8,300	TON	118.00	974,000
	2004	4,300	2.03	8,700	TON	85.22	742,000
WHEAT, Grain	2005	805	0.94	757	TON	109.06	82,600
	2004	910	0.93	843	TON	111.07	93,600
RANGELAND⁴	2005	1,191,000	N/A	N/A	ACRE	8.90	10,600,000
	2004	1,191,733	N/A	N/A	ACRE	8.90	10,606,000



TOTAL ACRES 2004 1,210,267 TOTAL VALUE \$15,515,	FIELD CROPS	2005	1,212,691	FIELD CROPS	\$15,477,000
	TOTAL ACRES	2004	1,210,267	TOTAL VALUE	\$15,515,000

¹ Includes: Pintos, Pink, Pinquito, Garbanzo and Lima Beans

New Category: includes Safflower and Pasture
 Includes: Hay Oats and Misc. Oats
 Previously reported as Pasture, Dry Land

LETTUCE PRODUCTION ~ DETAIL

			PRODUCT	ION		VALUE	
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL**
HEAD LETTUCE							
SPRING	2005	21,459					
	2004	22,611					
SUMMER	2005	19,855					
FALL	2004	21,235				<u> </u>	
FALL	2004	24,840					
NAKED PACK	2005 2004	N/A N/A	N/A N/A	9,155,000 9,983,000	CTN CTN	\$6.73 6.56	\$61,614,000 65,488,000
F						_	
WRAPPED PACK	2005 2004	N/A N/A	N/A N/A	23,276,000 22,195,000	CTN CTN	7.93 8.10	184,579,000 179,781,000
							, ,
BULK FOR SHREDDING	2005 2004	N/A N/A	N/A N/A	19,385,000 23,241,000	CTN CTN	3.39 2.69	65,620,000 62,554,000
					• • • • • • • • • • • • • • • • • • • •		02,001,000
HEAD LETTUCE TOTAL	2005 2004 ¹	64,456	804	51,816,000	CTN	6.02	311,813,000
	2004	68,686	806	55,419,000	CTN	7.33	307,823,000
LEAF LETTUCE							
BUTTER LEAF LETTUCE	2005	1,964	1,088	2,138,000	CTN	6.99	14,947,000
	2004	1,816	1,097	1,994,000	CTN	7.04	14,028,000
ENDIVE	2005	695	1,242	863,000	CTN	7.52	6,491,000
	2004	728	1,823	1,328,000	CTN	6.21	8,242,000
ESCAROLE	2005	283	988	280,000	CTN	6.18	1,730,000
	2004	272	1,007	274,000	CTN	6.24	1,706,000
GREEN LEAF LETTUCE	2005	11,184	795	8,900,000	CTN	7.21	64,159,000
	2004	10,413	838	8,733,000	CTN	7.24	63,217,000
RED LEAF LETTUCE	2005	4,256	1,033	4,399,000	CTN	6.80	29,927,000
	2004	4,238	1,036	4,390,000	CTN	6.87	30,154,000
ROMAINE LETTUCE	2005	30,174	1,412	42,633,000	CTN	7.08	301,864,000
ROWAINE LETTUCE	2005	27,767	1,412 1,517	58,152,000	CTN	7.08 5.05	293,667,000
T	-		<u> </u>	· · · · · · · · · · · · · · · · · · ·			
LEAF LETTUCE Food Service ²	2005	N/A	N/A	232,625	TON	255.60	59,459,000
LEAF LETTUCE Value Added ³	2005	N/A	N/A	472,300	TON	258.50	122,231,000
			- '	, -	-		, - ,
LEAF LETTUCE TOTAL	2005	103,159	1,152	87,410,000	CTN	6.87	600,808,000
	2004*	92,580	1,086	74,871,000	CTN	5.49	411,014,000*
T STRUCK OD OF				100 000 000			#040 co. co. 1
LETTUCE CROP TOTALS	2005 2004*	216,171 206,500		139,226,000 130,289,000	CTN CTN		\$912,621,000 718,837,000*
TOTALO	2004	200,300		130,203,000	CIN		1 10,031,000

¹ Corrected Total for 2004
2 New Category is Leaf Lettuce Food Service
3 New Category is Leaf Lettuce Value Added
*Adjusted figures
**Totals may not calculate due to reorganization of crops

GRAPE PRODUCTION

		PRODUCTION			VALUE		
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
BEARING ACRES	2005	38,179	7.03	269,000	TON	\$948.09	\$254,615,000
BEARING ACRES	2004	38,614	4.46	172,000	TON	1,013.35	174,380,000
							_
NON BEARING/NOT HARVESTED	2005	1,531					
NON BEARING/NOT HARVESTED	2004	1,036					
TOTAL GRAPE ACRES	2005	39,710		-		-	
TOTAL GRAPE ACRES	2004	39,650					

TOTAL ACREAGE OF WHITE & RED GRAPES BY VARIETY

White Grape Varieties	Harvested Acres	Average Price Per Ton	Total Tons	Total Value
Chardonnay	16,397	\$846	130,000	\$109,734,000
Chenin Blanc	432	\$334	3,400	\$1,135,000
Gewurztraminer	563	\$869	4,900	\$4,275,000
Malvasia Bianca	74	\$1,019	291	\$296,000
Muscat Canelli	112	\$1,320	1,360	\$1,795,000
Muscat Orange	19	\$1,503	53	\$80,000
Other Whites ¹	101	\$575	515	\$296,000
Pinot Blanc	139	\$749	496	\$371,000
Pinot Grigio/Pinot Gris	808	\$1,131	5,193	\$5,873,000
Riesling	932	\$1,000	5,920	\$5,916,000
Roussanne	16	\$1,600	62	\$99,000
Sauvignon Blanc	1,011	\$997	8,400	\$8,374,000
Semillon	55	\$975	348	\$339,000
Viognier	132	\$1,476	671	\$991,000



Red Grape Varieties	Harvested Acres	Average Price Per Ton	Total Tons	Total Value
Cabernet Franc	376	\$753	3,065	\$2,307,000
Cabernet Sauvignon	4,147	\$988	25,300	\$25,028,000
Charbono	188	\$1,000	2,050	\$2,045,000
Malbec	120	\$1,547	627	\$970,000
Merlot	5,820	\$1,032	37,800	\$39,016,000
Mourvedre	3	\$1,828	10	\$18,000
Other Reds ²	165	\$980	1,080	\$1,058,000
Petit Verdot	143	\$952	747	\$711,000
Petite Sirah	223	\$885	1,180	\$1,044,000
Pinot Noir	4,251	\$1,370	23,700	\$32,502,000
Zinfandel	246	\$648	1,460	\$945,000
Sangiovese	124	\$831	512	\$425,000
Syrah/Shiraz	1,583	\$926	9,690	\$8,972,000

¹ Albarino, French Colombard, Loureiro, Muscat Giallo, Muscat Hamburg, Pigato, Trexidaura, Marsanne, Grenache and Grenache Blanc ² Aleatico, Alicante Bouschet, Barbera, Carignane, Cinsaut, Dolcetto, Freisa, Gamay (Napa)/Valdigue, Nebbiolo, Souzao, Tannat and Tempranillo

MONTEREY COUNTY'S MILLION DOLLAR CROPS

2005 CROP RANKING	CROPS	2005 VALUE
1	LEAF LETTUCE	\$600,808,000
2	STRAWBERRIES	\$390,898,000
3	HEAD LETTUCE	\$311,813,000
4	NURSERY	\$276,235,000
5	GRAPES	\$254,615,000
6	BROCCOLI	\$216,575,000
7	SPINACH	\$188,224,000
8	SPRING MIX	\$164,462,000
9	SALAD PRODUCTS	\$132,277,000
10	MISC. VEGETABLES	\$104,958,000
11	CELERY	\$104,144,000
12	CAULIFLOWER	\$93,386,000
13	MUSHROOM	\$65,983,000
14	ARTICHOKES	\$54,674,000
15	BEEF CATTLE	\$30,713,000
16	RASPBERRIES	\$26,612,000
17	PEAS	\$25,514,000
18	CABBAGE	\$25,361,000
19	ASPARAGUS	\$23,159,000
20	GREEN ONIONS	\$19,016,000
21	CARROTS	\$16,574,000
22	KALE	\$15,936,000
23	RAPPINI	\$15,199,000
24	DRY ONIONS	\$11,858,000
25	RANGELAND	\$10,600,000
26	RADICCHIO	\$10,067,000
27	CITRUS	\$8,962,000
28	PEPPERS	\$7,921,000
29	DAIRY	\$7,229,000
30	SEEDS	\$6,049,000
31	NAPA	\$5,644,000
32	TOMATOES	\$5,636,000
33	CILANTRO	\$5,412,000
34	ANISE	\$5,013,000
35	PARSLEY	\$4,719,000
36	CHARD	\$4,593,000
37	LEEKS	\$4,126,000
38	MISC. FRUITS	\$3,261,000
39	SQUASH	\$2,432,000
40	BEANS	\$2,190,000
41	BOK CHOY	\$1,731,000
42	MISC. POULTRY	\$1,717,000
43	RADISH	\$1,380,000
44	BARLEY, GRAIN	\$1,142,000

SUMMARY OF CROP CATEGORIES	2004 TOTAL VALUE	2005 TOTAL VALUE
VEGETABLE CROPS	\$2,098,931,000	\$2,249,474,000
FRUITS & NUTS	\$529,041,000	\$685,553,000
NURSERY CROPS	\$261,203,000	\$276,235,000
LIVESTOCK & POULTRY	\$40,111,000	\$40,189,000
FIELD CROPS	\$15,515,000	\$15,477,000
SEED CROPS	\$7,022,000	\$6,049,000
APIARY	\$47,800	\$34,100
TOTAL OF CROP CATEGORIES	\$2,951,870,800	\$3,273,011,100

TRENDS OF MAJOR CROPS IN MONTEREY COUNTY

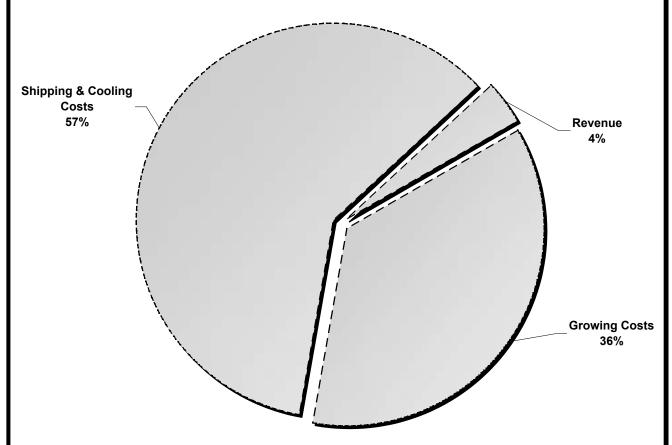
YEAR

ARTICHOKES ACRE VALUE CPI ADUSTED \$1 BROCCOLI ACRE VALUE CPI ADJUSTED \$ CAULIEL OWER ACRE	9,187 30,555,000 55,454,000 54,805 129,332,000	6,344 37,655,000 48,288,000 61,447	6,081 54,674,000
BROCCOLI CPI ADUSTED \$1 ACRE VALUE CPI ADJUSTED \$ CAULIEL OWER ACRE	30,555,000 55,454,000 54,805	37,655,000 48,288,000	·
BROCCOLI CPI ADUSTED \$1 ACRE VALUE CPI ADJUSTED \$ CAULIEL OWER ACRE	30,555,000 55,454,000 54,805	37,655,000 48,288,000	,
BROCCOLI ACRE VALUE CPI ADJUSTED \$ CAULELOWER ACRE	55,454,000 54,805	48,288,000	0 1,01 1,000
CAULIELOWER VALUE CPI ADJUSTED \$ CAULIELOWER ACRE	54,805	, ,	54,674,000
CAULIE OWER ACRE	· · · · · · · · · · · · · · · · · · ·	Ŭ.,	38,863
CAULIEL OWER ACRE	120,002,000	264,396,000	216,575,000
	234,722,000	338,969,000	216,575,000
	22,415	23,569	16,380
VALUE	62,239,000	125,000,000	93,386,000
CPI ADJUSTED \$	112,956,000	160,256,000	93,386,000
ACRE	5,410	7,445	10,138
CELERY VALUE VALUE	39,380,000	73,309,000	104,144,000
CPI ADJUSTED \$	71,470,000	93,986,000	104,144,000
ACRE	28,647	30,483	38,179
GRAPES ² VALUE	38,321,000	79,309,000	254,615,000
CPI ADJUSTED \$	69,548,000	101,678,000	254,615,000
ACRE	62,640	71,770	64,456
HEAD LETTUCE VALUE	243,357,000	481,593,000	311,813,000
CPI ADJUSTED \$	441,664,000	617,427,000	311,813,000
4005	7,737	33,822	103,159
LEAF LETTUCE ACRE VALUE	28,494,000	184,393,000	600,808,000
CPI ADJUSTED \$	51,713,000	236,401,000	600,808,000
1005	N/A	N/A	N/A
MUSHROOMS ACRE VALUE	38,432,000	51,541,000	65,983,000
CPI ADJUSTED \$	69,750,000	66,078,000	65,983,000
MIDCERY	967	1,575	1,699
NURSERY ACRE PRODUCTS VALUE	77,687,000	111,199,000	276,235,000
CPI ADJUSTED \$	140,988,000	142,563,000	276,235,000
ACRE	3,046	8,700	16,937
SPINACH ACRE VALUE	5,278,000	43,721,000	188,224,000
CPI ADJUSTED \$	9,579,000	56,053,000	188,224,000
ACRE	3,500	7,022	9,294
STRAWBERRIES VALUE	93,619,000	192,714,000	390,898,000
CPI ADJUSTED \$	169,907,000	247,069,000	390,898,000

TOTAL	ACRE VALUE CPI ADJUSTED \$	198,354	252,177	305,186
		\$786,694,000	\$1,644,776,000	\$2,557,355,000
		\$1,427,751,000	\$2,108,769,000	\$2,557,355,000

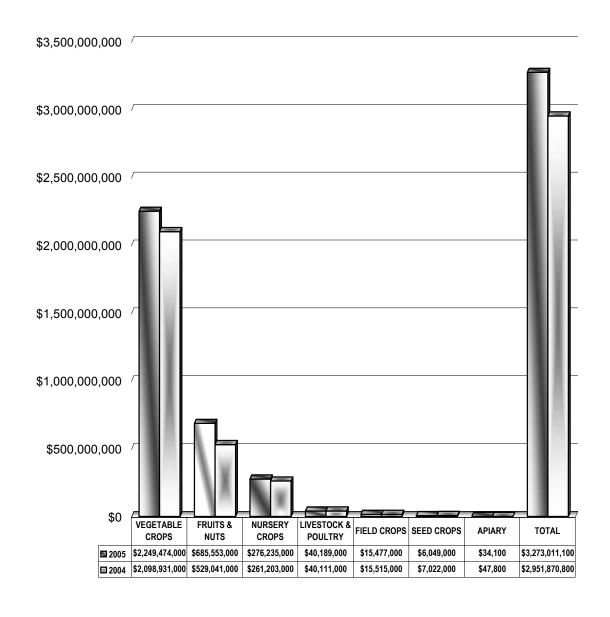
¹ Consumer Price Index Conversion Factors from http://oregonstate.edu/Dept/pol_sci/fac/sahr/cv2004x.pdf
² Represents Bearing Acres Only

MONTEREY COUNTY'S NET RETURN TO GROWER





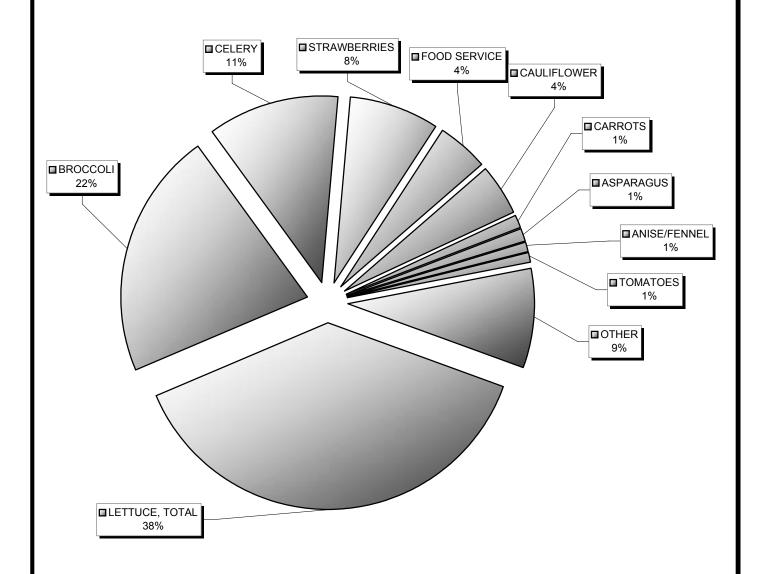
MONTEREY COUNTY'S GROSS PRODUCTION VALUES



MONTEREY COUNTY'S AGRICULTURAL EXPORTS TRADE PARTNERS

Country	2005 Total Lbs.	2004 Total Lbs.	
Australia	817,774	1,494,966	
Canada	301,209,086	281,407,854	
Chile	1,080	201,407,034	
EUN	2,898,657	3,368,685	
French Polynesia	56,552	82,944	
Guam	310,279	642,744	
Guatemala	46,421	042,744	
Hong Kong	13,783,474	16,533,472	
Indonesia	8,056	1,559,755	
Jamaica	14,928	27,796	
Japan	90,983,242	104,702,673	
Kuwait	2,559,296	3,826,652	
Malaysia	1,265,148	1,100,760	
Mexico	38,685,051	35,155,551	
New Zealand	418,076	443,944	
Nicaragua	390,000	0	
Northern Mariana	38,169	824,546	
Norway	75,000	31,225	
Panama	198,426	591,285	
Philippines	50,032	25,548	
Puerto Rico	6,123,316	6,556,396	
Republic of China	1,773,071	282,566	
Republic of Korea	1,158,526	3,446,541	
Saudi Arabia	214,920	0	
Singapore	15,170,977	10,882,154	
Taiwan	74,030,768	55,620,932	
Trinidad & Tobago	0	68,794	
United Arab Emirates	528,318	1,310,000	
Vietnam	1,296	0	

MONTEREY COUNTY'S PRODUCE EXPORTS BY COMMODITY



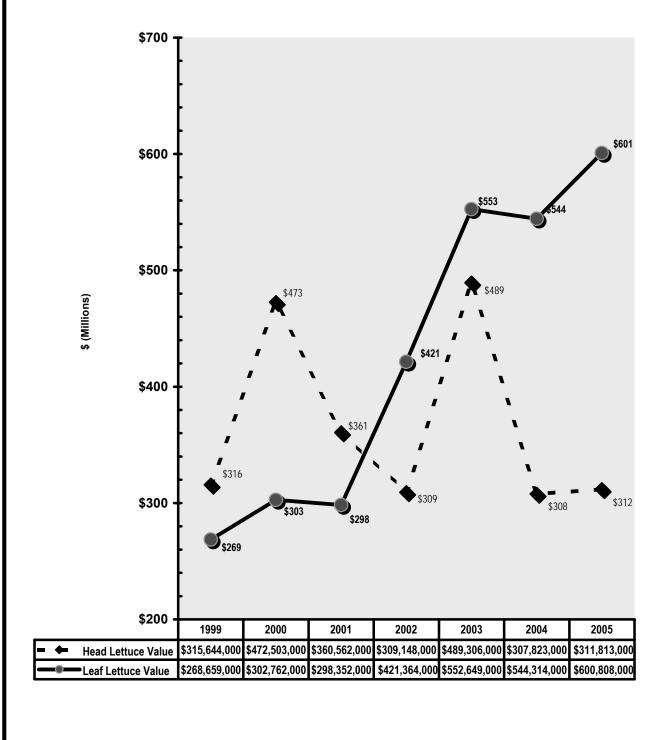
2005 Exported Commodites

2004 Exported Commodites

Lettuce, Total	222,142,207 lbs.	Lettuce, Total	225,037,101 lbs.
Broccoli	126,140,997 lbs.	Broccoli	124,207,067 lbs.
Celery	66,430,182 lbs.	Celery	78,044,688 lbs.
Strawberries	44,714,682 lbs.	Strawberries	37,279,240 lbs.
Food Service	25,956,558 lbs.	Food Service	35,265,490 lbs.
Cauliflower	23,533,736 lbs.	Cauliflower	24,631,435 lbs.
Carrots	7,208,221 lbs.	Carrots	8,423,055 lbs.
Asparagus	6,188,364 lbs,	Asparagus	8,351,326 lbs.
Anise/Fennel	5,731,895 lbs.	Tomatoes	5,983,200 lbs.
Tomatoes	4,320,584 lbs.	Spinach	4,014,248 lbs.
Other	50,226,705 lbs.	Other	80,221,846 lbs.

631,458,696 lbs. 582,594,131 lbs.

SEVEN YEAR COMPARISON OF HEAD AND LEAF LETTUCE TOTALS



SUMMARY OF SUSTAINABLE AGRICULTURAL ACTIVITIES

PEST AGENT / MECHANISM SCOPE OF PROGRAM¹

COUNTY BIOLOGICAL CONTROL

Yellow Starthistle*, Centaurea solstitialis Seedhead Weevils/Fly, 45 sites

Bangasternus orientalis, Eustenopus villosus Urophora sirunaseva, Larinus curtus, Starthistle rust, Puccinia jacea var. solstitialis

Italian Thistle, Carduus spp. Seedhead weevil, Rhinocyllus conicus General Distribution

Russian Thistle, Salsola australis Leaf & stem mining moths, Coleophora spp 7 sites

Puncture Vine, Tribulus terrestris Stem & Seed weevils, and Microlarinus spp. General and Local Distribution

Aphid species Seven-spotted lady beetle, Coccinella septempunctata 1 site

Ash Whitefly, Siphoninus phillyreae Parasitic wasp, Encarsia inaron General Distribution

PEST ERADICATION

Scotch Thistle, Onopordum acanthium Mechanical/Chemical One Infestation
Skeletonweed, Chrondrilla junceae Mechanical/Chemical Two Infestations
Puna Grass, Achnatherum brachychaetum Mechanical/Chemical Seven Infestations
Dalmatian Toadflax, Linaria genistifolia Mechanical/Chemical One infestation

Diffuse Knapweed (Centaurea diffusa), Hydrilla (Hydrilla verticillata), and biddy-biddy (Acaena novae-zelandiae) have been eradicated.

PEST MANAGEMENT

Roadside (virus host) Weeds Chemical County right-of-ways, spot treatment County right-of-ways, boom and spot treatment Roadside, Targeted Noxious Weeds Chemical Lettuce Mosaic Virus Virus-Free Seed Indexing of all county-planted seed Lettuce Mosaic Virus Host-Free Period No lettuce above ground 12/7-12/21 Host-Free Period Celery Mosaic Virus No celery above ground in January Lettuce Root Aphid Quarantine, State Misc. Ruling 3597 Lombardy poplar prohibition

PEST EXCLUSION

Pest exclusion terminal inspections involved 1,765.5 hours, during which 6,131 incoming shipments were inspected. Sixteen shipments were rejected in violation of quarantine regulations.

PEST DETECTION

Pest detection is the systematic search for pests outside of a known infested area, or for pests not known to occur in California. The general goal is to detect the insects before they become established over an area so large that eradication is no longer biologically or economically feasible. Detection trapping is performed primarily by the County Agricultural Commissioner's offices.

TARGET PEST	INSECT HOSTS	NO. OF TRAPS SERVICED
Medfly	Fruit Trees	1587
Melon Fruit Fly	Vegetable Gardens	401
Mexican Fruit Fly	Fruit Trees	600
Oriental Fruit Fly	Fruit Trees	628
Misc. Fruit Flies	Fruits and Vegetables	475
Gypsy Moth	Shade Trees	1135
Japanese Beetle	Turf, Roses	603
Nantucket Pine Tip Moth	Monterey Pine	34
Trogoderma Beetle	High Hazard Commodities	15
Glassy Winged Sharpshooter Nurseries/Vineyards/Urban Areas		534

Pest detection trapping activities accounted for 10,609.5 hours, with a total of 12,276 services performed on 5,487 traps placed. 52.5 hours were applied to inspecting 119 commercial crop sites of 17 net acres/1,695 gross acres. Five calls to residences were made for investigation of suspected exotic pest reports and 85 hours were utilized on inspection/identification of public-reported pests. Eighteen high hazard locations were inspected and 553 miles of entryways surveyed, accounting for 49.5 and 47 hours respectively. Special surveys were made for exotic aquatic weeds, Karnal bunt, sudden oak death disease, and glassy-winged sharpshooter.

ORGANIC FARMING

Ninety five farms, totaling approximately 16,410 acres, were registered in Monterey County in 2005. Utilizing organic principles defined in the California Organic Product Act of 2003, these farms produce a wide array of commodities, such as: strawberries, salad mix, spinach, lettuce, celery, raspberries, broccoli, grapes and other miscellaneous vegetables. The total estimated value of organic production in Monterey County during 2005 was \$155,536,239. In 2004 Monterey County had 14,073 acres under organic production with an estimated value of \$134,082,965.

^{*} The hairy seedhead weevil, Eustenopus villosus, is available for release to individual properties with yellow starthistle infestations. Call for arrangements.

¹ Represents total number of individual sites, plants, etc. incorporated in program effort (surveys, collection, releases, etc.)

